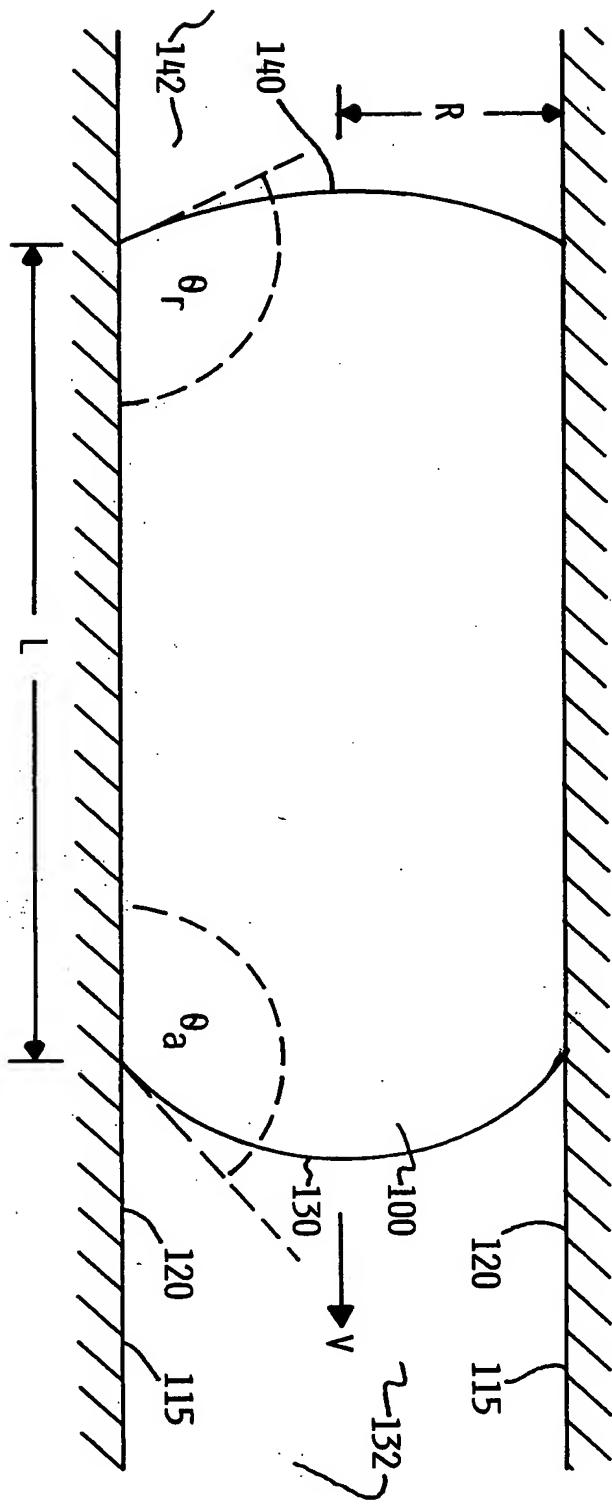


FIG. I

FIG. IA



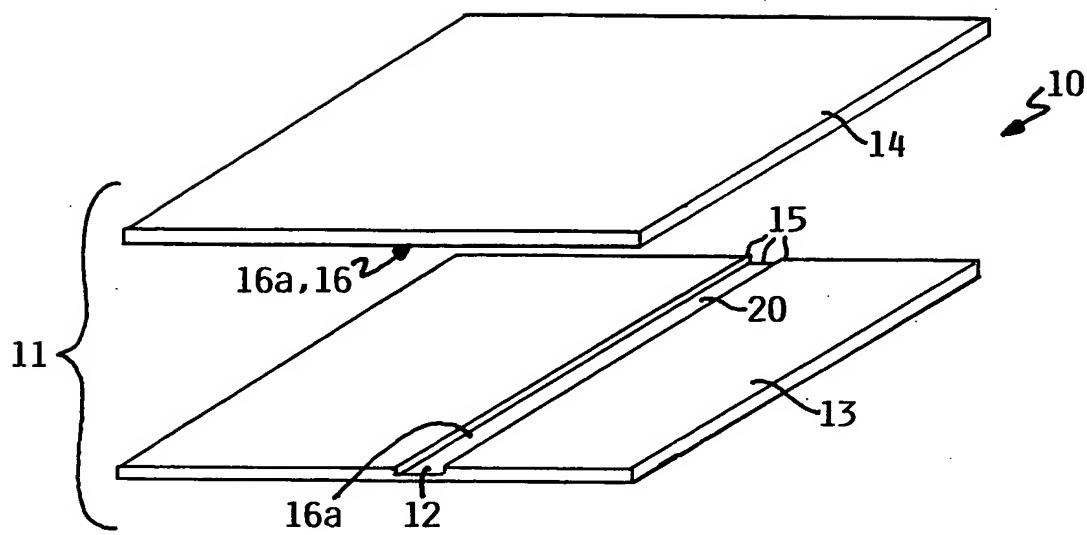


FIG. IB

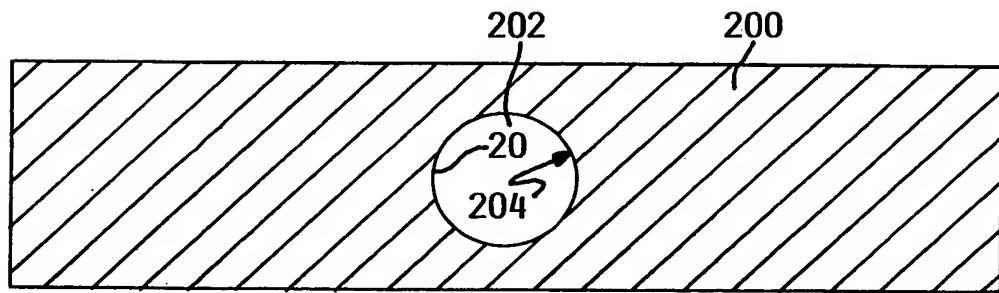


FIG. IC

FIG. 3

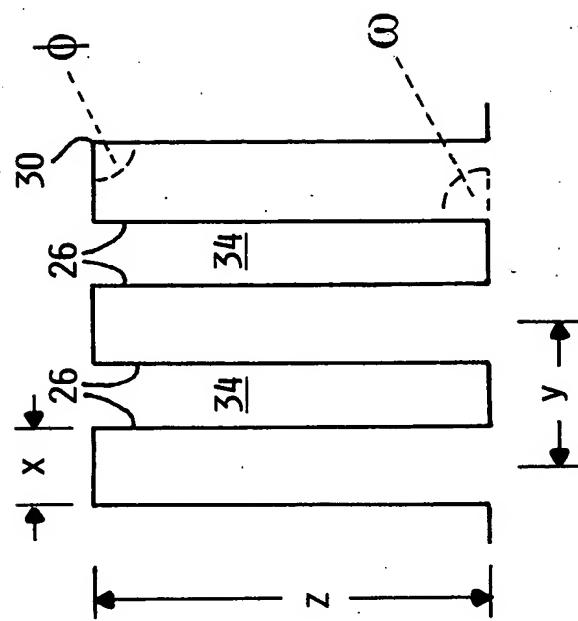
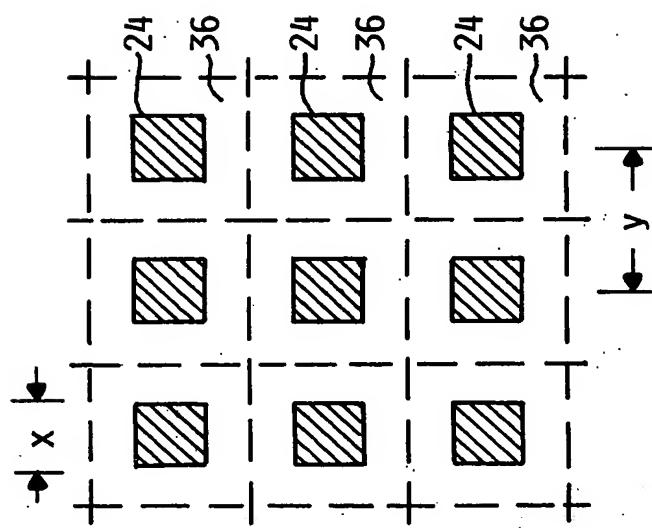


FIG. 2



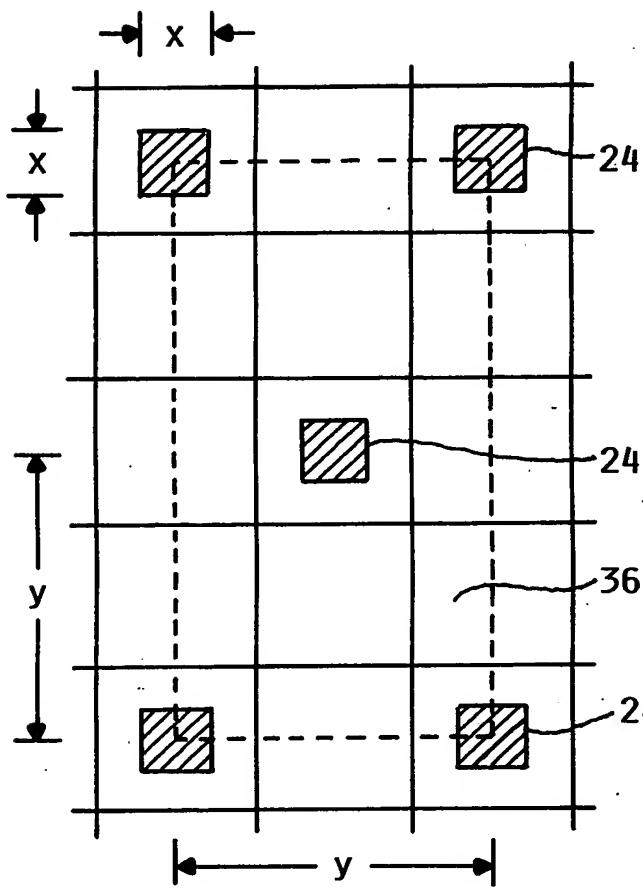


FIG. 4

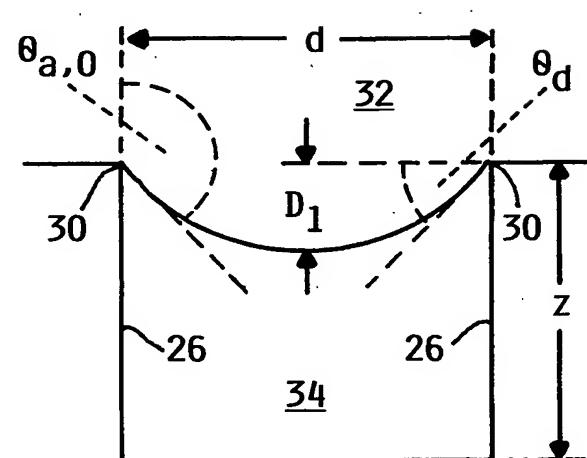
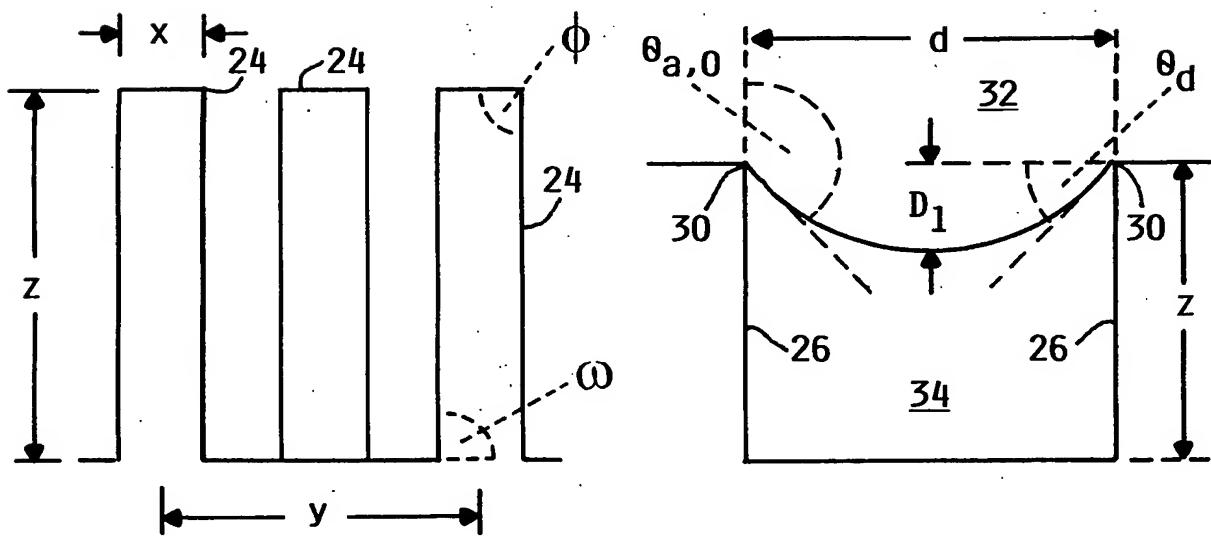


FIG. 6

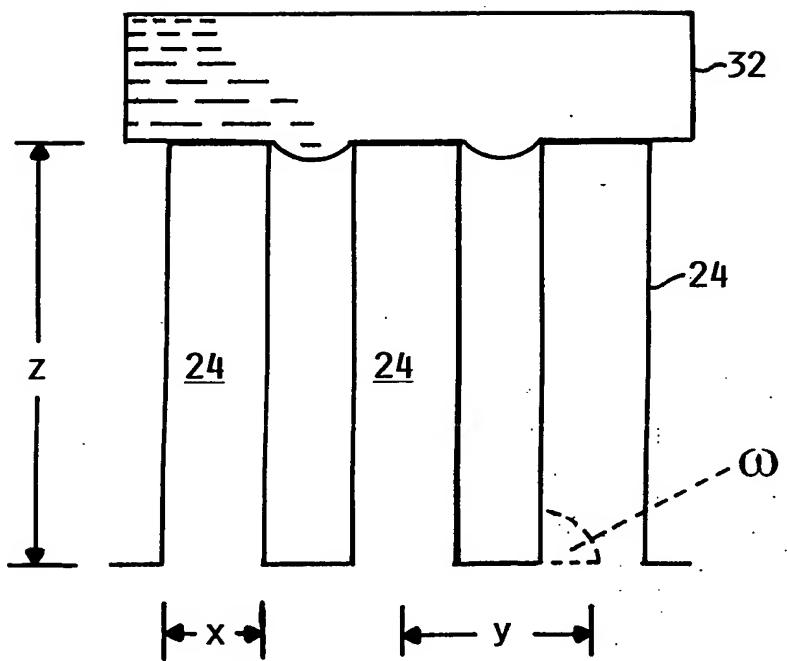


FIG. 7

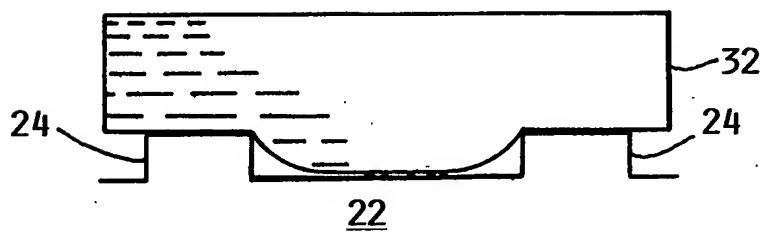


FIG. 8

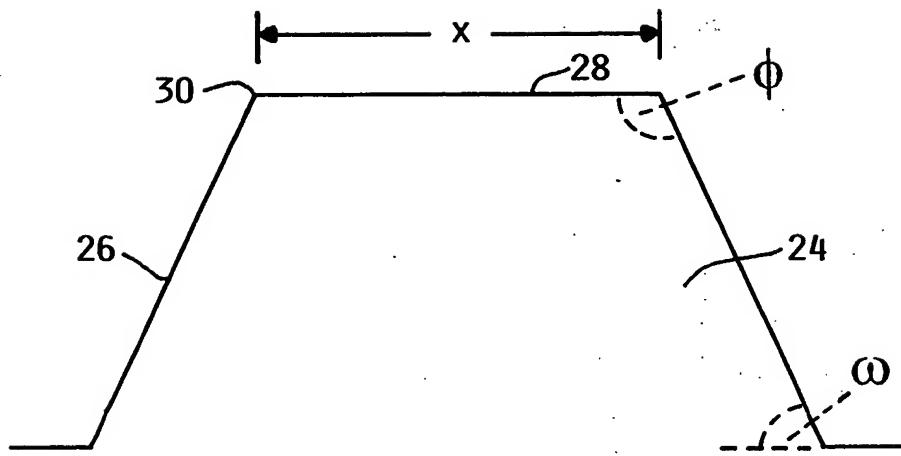


FIG. 9

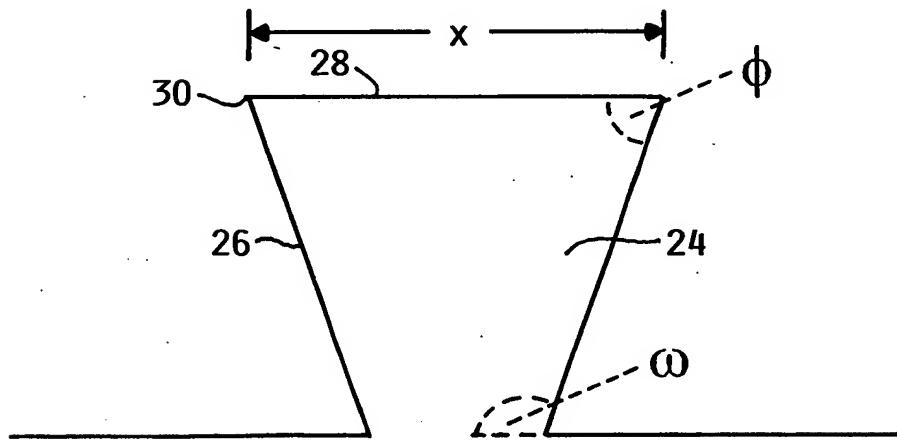


FIG. 10

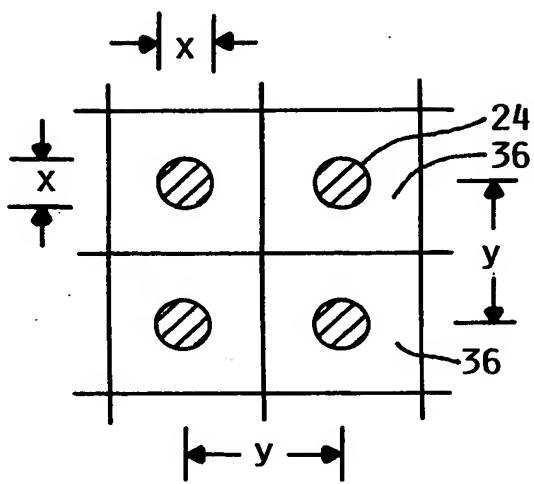


FIG. 11

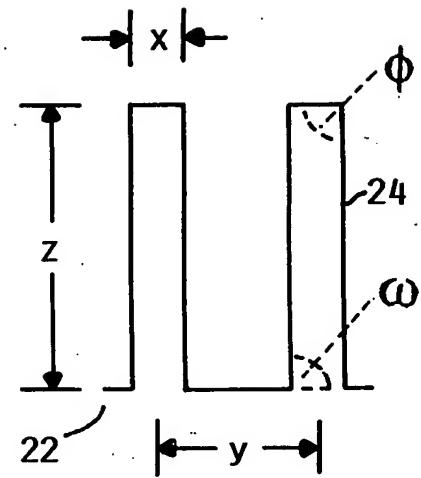


FIG. 12

Contact Line Density (Λ) and Linear Fraction of Contact Along Asperities (λ_p)

Geometry	Λ	λ_p
Hexagonal Array of Square Posts	$\frac{4x}{y^2}$	$\frac{(x/y)}{\{[5/4 - 2(x/y) + (x/y)^2]^{1/2} + x/y\}}$
Rectangular Array of Square Posts	$\frac{4x}{y^2}$	$\frac{x}{y}$
Rectangular Array of Cylindrical Posts	$\frac{\pi x}{y^2}$	$(1-x/y)[1+(1/2\pi-1)(x/y)]$
Parallel Ridges	$\frac{2}{y}$	$\frac{x}{y}$

FIG. 13

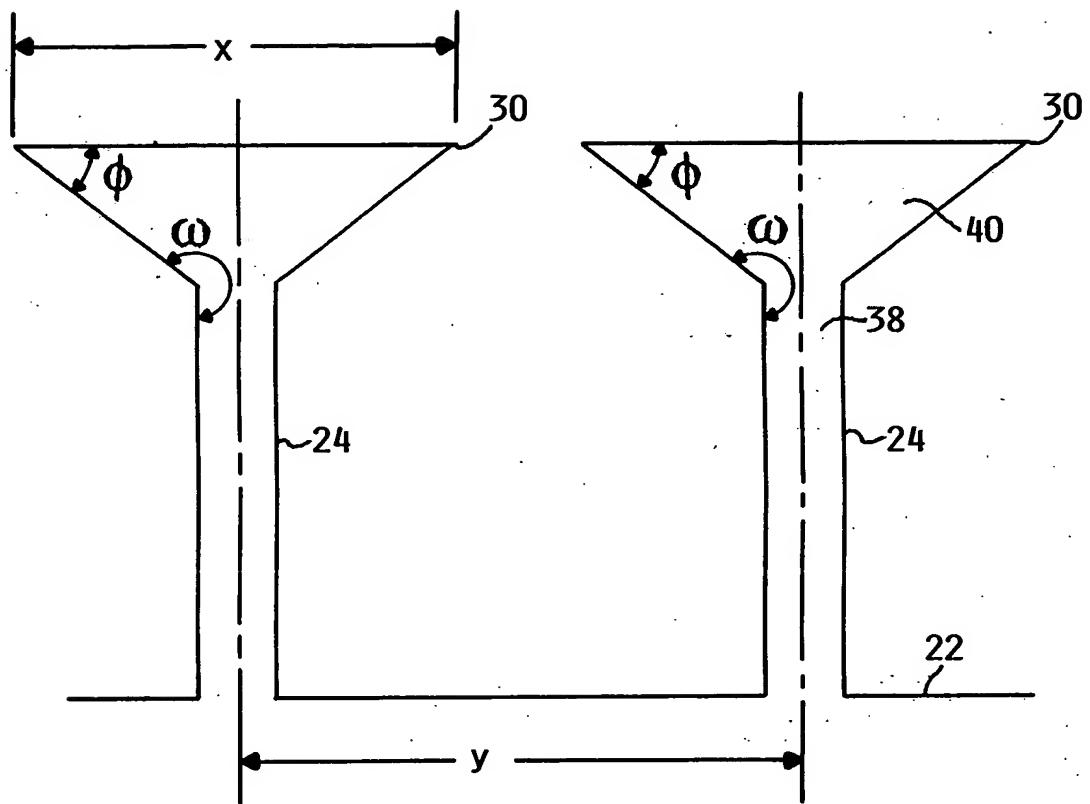


FIG. 14

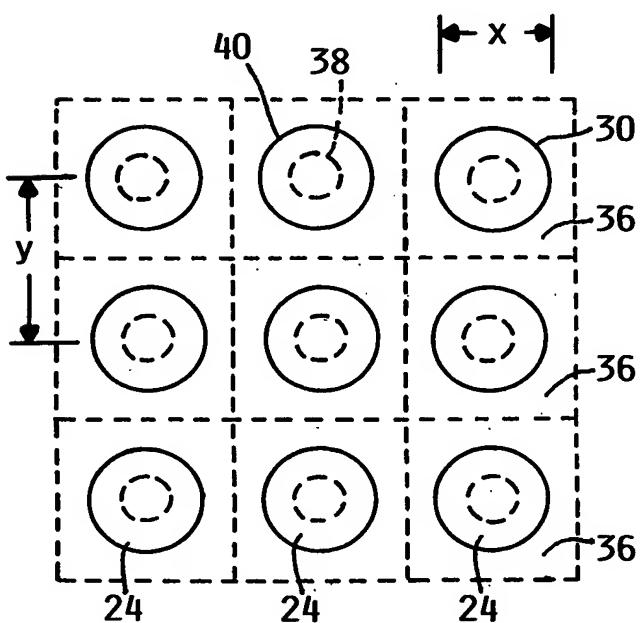


FIG. 15

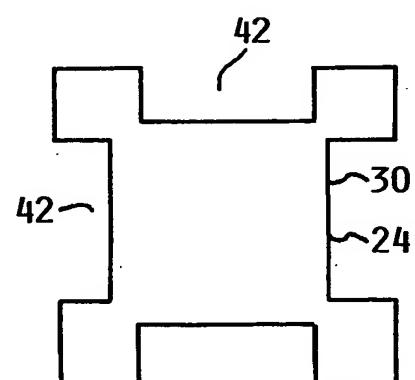


FIG. 16

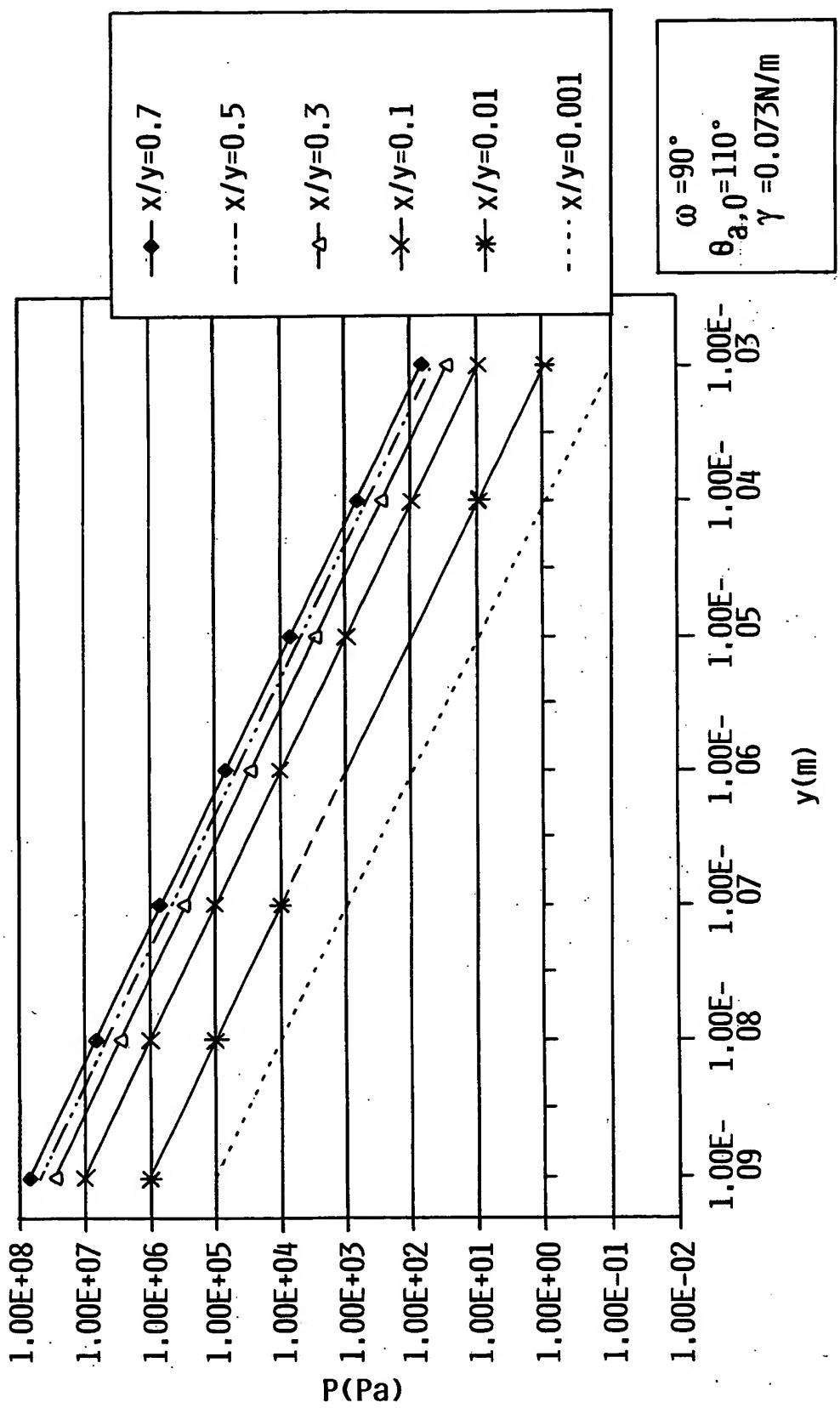


FIG. 17